Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim I (currently amended): A method of concentrating the solids of a liquid suspension comprising the steps of:

- (i) providing a pressure differential across the walls of permeable, hollow membranes immersed in the liquid suspension, said liquid suspension being applied to the outer surface of the porous hollow membranes to induce and sustain filtration through the membrane walls wherein:
 - (a) some of the liquid suspension passes through the walls of the membranes to be drawn off as clarified liquid or filtrate from the hollow membrane lumens, and
 - at least some of the solids are retained on or in the hollow membranes or otherwise as suspended solids within the liquid surrounding the membranes.
 - (ii) introducing a chemical cleaning solution into the lumens; and
- (ii) (iii) periodically-backwashing the membrane pores using the filtrate by applying a gas at a pressure below the bubble point to the membrane lumens to progressively displace at least some of the liquid-filtrate chemical cleaning solution within the lumens through the membrane pores resulting in removal of the solids retained on or in the hollow membranes into the bulk liquid surrounding the membranes.

Claim 2 (currently amended): A method of concentrating the solids of a liquid suspension comprising the steps of:

- (i) providing a pressure differential across the walls of permeable, hollow membranes immersed in the liquid suspension, said liquid suspension being applied to the outer surface of the porous hollow membranes to induce and sustain filtration through the membrane walls wherein:
 - some of the liquid suspension passes through the walls of the membranes to be drawn off as clarified liquid or filtrate from the hollow membrane lumens, and
 - at least some of the solids are retained on or in the hollow membranes or otherwise as suspended solids within the liquid surrounding the membranes,
- (ii) introducing a chemical cleaning solution into the lumens; and

 (ii) (iii) dislodging the retained solids from the membranes by applying a

 dislodging medium through the lumens of said membranes while concurrently draining

 liquid the chemical cleaning solution from said lumens, wherein the application of the

 dislodging medium initially displaces liquid the chemical cleaning solution within the

 hollow membrane lumens through the hollow membrane with gas, to effect firstly a

 discharge of liquid the chemical cleaning solution in the lumens through the membrane

 walls, and secondly a transmembrane cleaning of the membranes by applying the gas at

 sufficient pressure onto the liquid chemical cleaning solution to overcome the bubble

 point of the membrane, and ensure that the gas will displace liquid the chemical cleaning

solution and follow it through the larger pores of the membranes to dislodge any solids retained therein; and for the emerging gas to scour the external walls of the membranes and displace the removed solids into the bulk liquid surrounding the membranes.

Claim 3 (previously presented): A method of concentrating the solids of a liquid suspension according to claim 1 wherein said method is carried out as a continuous process utilizing a repetitive cycle of solid accumulation and solid displacement or removal.

Claim 4 (currently amended): A method of concentrating the solids of a liquid suspension according to claim 1 wherein the dislodging or backwashing step includes use of a chemical cleaning solution is a clean-in-place chemical (CIP) solution.

Claim 5 (currently amended): A method of concentrating the solids of a liquid suspension according to claim 4 including the step of filtering the chemical cleaning solution from the outer surface of the porous hollow membranes into the membrane lumens and then displacing said the chemical cleaning solution back through the membrane pores by application of said gas.

Claim 6 (currently amended): A method of concentrating the solids of a liquid suspension according to claim 4 wherein the backwashing or dislodging step includes further including displacing the filtrate in a reverse direction through the membrane pores while injecting the chemical cleaning solution into the filtrate.

Claim 7 (original): A method of concentrating the solids of a liquid suspension according to claim 4 including the step of applying chemical cleaning solution under pressure to the outer surface of the porous hollow membranes to displace chemical cleaning solution through the membrane pores into the membrane lumens and then displacing said chemical cleaning solution back through the membrane pores by application of said gas.

Claim 8 (previously presented): A method according to claim 5 including the step of removing at least part of the liquid remaining in the membrane lumens prior to displacing chemical cleaning solution into the membrane lumens.

Claim 9 (previously presented): A method according to claim 5 wherein the displacing of chemical solution into the membrane lumens takes place before said transmembrane cleaning.

Claim 10 (previously presented): A method of concentrating the solids of a liquid suspension according to claim 1 wherein the gas is pulsed in its application to the membrane lumens.

Claim 11 (currently amended): A method of concentrating the solids of a liquid suspension according to claim 1 including the step of removing at least part of the bulk liquid surrounding the membranes prior to the backwashing or dislodging step.

Claim 12 (withdrawn): A concentrator for recovering fine solids from a liquid feed suspension comprisine:

- a vessel for containing said feed suspension;
- (ii) a plurality of permeable, hollow membranes within the vessel;
- (iii) means for providing a pressure differential across walls of said membranes:
 - (iv) means for withdrawing clarified liquid from the membrane; and
- (v) means for applying gas at a pressure below the bubble point to the liquid permeate in the membrane lumens to effect a discharge of at least some of the liquid permeate in the lumens through the membrane walls to dislodge any solids retained therein and displace the removed solids into the bulk liquid surrounding the membranes.

Claim 13 (withdrawn): A concentrator for recovering fine solids from a liquid feed suspension comprising:

- a vessel or tank for containing said feed suspension;
- (ii) a plurality of permeable, hollow membranes within the vessel or tank;
- (iii) means for providing a pressure differential across walls of said
 - (iv) means for withdrawing clarified liquid from the membrane; and
- (v) means for applying gas pressure to the liquid in the membrane lumens and walls while the vessel or tank is exposed to atmospheric pressure and while concurrently draining liquid from said lumens, to effect firstly a discharge of liquid in the lumens through the membrane walls, and secondly a transmembrane cleaning of the membranes

by applying the gas at sufficient pressure onto the liquid to overcome the bubble point of the membrane, and ensure that the gas will displace liquid and follow it through the larger pores of the membranes to dislodge any solids retained therein; and for the emerging gas to scour the external walls of the membranes and displace the removed solids into the bulk liquid in the vessel or tank.